the package of shuffled game cards or any other accidental or fraudulent acts etc.). A package of shuffled game cards is known and is disclosed in Patent Literature 1: (US Patent Publication 2010/0327525).

[Citation List]

[Patent Literature]

[0004]

[Patent Literature 1] US Patent Application Publication No. 2010/0327525

[Summary of Invention]

[Technical Problem]

[0005]

The present disclosure seeks to provide a real-time monitoring of the package of shuffled game cards in casinos and enable the casino to stop a game immediately when something unexpected happens by administrating the whole package of shuffled game cards in casinos. This administrating is important because he or she may know the sequence of the shuffled playing cards on the table once it had been lost in the casino.

[0006]

The present disclosure also seeks to provide a package of shuffled game cards monitoring system with which it is possible to allow a casino to stop any suspicious package of shuffled game cards in the casino, by administrating the whole package of shuffled game cards in casinos.

When operating people in casinos distribute the packages of playing cards to game tables for plays, any loss of package or an exchange of packages should not occur. For example, if some of cards or whole package of cards in which the sequence of these cards are preliminary read or exchanged by someone during a delivery of packages to a game table, he or she may win the games at the table to which the exchanged or read package delivered.

[Solution to Problem]

[0007]

An aspect of the present invention provides a management system for managing gaming equipment in a casino equipped with a game table, wherein the gaming equipment is equipped with an RFID tag storing an ID for identifying the gaming equipment, the management system comprising a storage provided at the game table or near the game table to store the gaming equipment to be used at the game table; a first RFID reader provided at the storage to read the RFID tags of the gaming equipment stored in the storage; a second RFID reader provided at the game table to read the RFID tag of the gaming equipment brought of the storage onto the game table; and a management control device is configured to cause the first RFID reader and the second RFID reader to read the RFID tag, and inspect the gaming equipment brought out of the storage onto the game table based on reading results of the second RFID reader.

[0007a]

Another aspect of the present invention provides a management system for managing gaming equipment, wherein the gaming equipment is equipped with an RFID tag storing an ID for identifying the gaming equipment, the management system comprising a storage provided at a game table or near the game table to store the gaming equipment to be used at the game table; an RFID reader provided at the game table to read the RFID tags of the gaming equipment brought out of the storage onto the game table; and a management control device configured to determine whether the gaming equipment whose RFID tag was read by the RFID reader should be brought out of the storage and located on the game table.

[0007b]

Another aspect of the present invention provides a management system for managing gaming equipment in a casino equipped with a game table, wherein the gaming equipment is equipped with an RFID tag storing an ID for identifying the gaming equipment, the management system comprising a storage provided at the game table or near the game table to store the gaming equipment to be used at the game table; a first RFID reader that repeatedly reads the RFID tag of the gaming equipment stored in the storage; a second RFID reader provided at the game table to read the RFID tag of the gaming equipment brought out of the storage onto the game table; and a management control device configured to output an alert when there is a problem based on reading of the second RFID reader.

[0007c]

There is also disclosed a system for administrating a package of shuffled playing cards, wherein

a predetermined number of decks of game cards are shuffled in a random order and individually packaged as one package, an unique ID code is attached to the package of each unique shuffled game cards

the system having

one or more ID code reader(s) for reading all of ID codes of the packages which have been brought into a pit for a game table,

an administrating controller for monitoring each ID code of all existing packages of shuffled game cards at the pit with obtaining each ID codes of all existing packages of shuffled game cards at the pit by the ID code reader(s),

the ID code reader(s) is also disposed at the game table for reading the ID code of the packages at the game table to identify the package which will be the next use for a card dealing shoe,

wherein,

the ID codes of the packages for the next use is examined whether it is the one properly arrived on the game table or the one arrived at proper timing or period of time by the administrating controller.

[0008]

There is also disclosed a method for administrating a package of shuffled playing cards,

wherein

a predetermined number of decks of game cards are shuffled in a random order and individually packaged as one package, an unique ID code is attached to the package of each unique shuffled game cards

and

the packages of shuffled game cards are carried from a backyard to pits for game tables and game tables,

the method having,

a registering step for registering all of ID codes of the packages which have been brought into a back yard in a data base,

an administrating step for reading all of the ID codes of packages which have been brought into a pit and monitoring each ID code of all existing packages of shuffled game cards at the pit by obtaining each ID codes of all existing packages of shuffled game cards at the pit by ID code reader(s),

wherein,

in the administrating step at the pit all of ID codes of the packages is examined whether it is the one preliminarily brought into the back yard and having been registered in the data base or not.

[0009]

The method for administrating a package of shuffled game cards according to the present disclosure, the registered ID codes of the packages in the data base may be deleted or acknowledged as after having used when the ID code of the package is read by an ID code reader at the game table. The ID codes of the packages read for the next use may be examined by the administrating controller whether it is the one properly arrived on the game table or the one arrived at proper timing or period of time that may be properly arrived on the game table or the one arrived at proper timing or period of time by judging at least one of the followings;

1) whether it was carried through predetermined delivery rout,

2) whether it was missing one,

3) whether it has not been registered,

4) whether it has been unused in the pit more than predetermined period,

5) whether it was carried from unexpected pit or without passing any pit,

6) whether it had been used at any of game tables in the past.

[0010]

The method for administrating a package of shuffled game cards according to the present disclosure, the administrating step further may have a step for administrating whether or not all of registered ID codes of the packages in the data base have been deleted or acknowledged as after having used during certain period of time. A pallet ID or a carton ID may be used for registering ID codes of the packages which have been brought into the back yard. The administrating step further may have a step for administrating whether or not there is any package which has not been used at the game tables during certain period of time.

[0011]

A keeping box for containing plurality of packages of shuffled game cards for the method for administrating a package of shuffled game cards according to the present disclosure may have reader(s) for reading the ID codes of packages of shuffled game cards in the keeping box, a communication means for sending information obtained by the reader to outside the keeping box and a lock means to prevent taking off the package from the keeping box.

[Brief Description of Drawings]

[0014]

[Figure 1] Fig. 1 is a perspective view of a package and an unpackaged shuffled playing cards to be used in a card dealing shoe of the system for administrating a package of shuffled playing cards according to the embodiment of the present invention.

[Figure 2] Fig. 2 is a diagram schematically showing the entirety of a system for administrating a package of shuffled playing cards according to an embodiment of the present invention.

Claims:

1. A management system for managing gaming equipment in a casino equipped with a game table, wherein the gaming equipment is equipped with an RFID tag storing an ID for identifying the gaming equipment, the management system comprising:

a storage provided at the game table or near the game table to store the gaming equipment to be used at the game table;

a first RFID reader provided at the storage to read the RFID tags of the gaming equipment stored in the storage;

a second RFID reader provided at the game table to read the RFID tag of the gaming equipment brought of the storage onto the game table; and

a management control device is configured to cause the first RFID reader and the second RFID reader to read the RFID tag, and inspect the gaming equipment brought out of the storage onto the game table based on reading results of the second RFID reader.

2. The management system according to claim 1, wherein the management control device outputs a report for outputting an alarm.

3. The management system according to claim 1, further comprising a database that stores the ID of the gaming equipment to be transferred from a backyard to a floor for use as a registered ID, wherein the management control device is configured to inspect whether the ID of the gaming equipment read by the second RFID reader is stored as a registered ID in the database.

4. The management system according to claim 1, wherein the management control device is configured to inspect whether the gaming equipment whose RFID tag was read by the second RFID reader is gaming equipment that should be brought out of the storage and located on the game table.

5. The management system according to claim 1, wherein the management control device is configured to inspect whether the gaming equipment whose RFID tag has been read by the second RFID reader is to be read by the first RFID reader.

6. The management system according to claim 1, further comprising a database that records that the RFID tag has been read by the second RFID reader, wherein the management control device is configured to inspect the gaming equipment based on the records in the database for about the gaming equipment when the RFID tag of the gaming equipment is read by the second RFID reader.

7. The management system according to claim 1, wherein the management control device is configured to inspect for inappropriate movement of the gaming equipment between a plurality of locations, including the storage and the game table.

8. The management system according to claim 1, wherein the management control device is configured to inspect whether the timing of the reading of the ID is appropriate when the ID is read from the RFID tag of the gaming equipment by the second RFID reader.

9. The management system according to claim 1, wherein the storage has a cover which, when opened, allows the entry/exit of the gaming equipment to/from the storage, and a locking means which prevents the cover from opening to prevent unauthorized extraction of the gaming equipment stored in the storage.

10. The management system according to claim 1, wherein the first RFID reader repeatedly reads the RFID tag of the gaming equipment stored in the storage.

11. The management system according to claim 1, wherein the second RFID reader reads the RFID tag of the gaming equipment when the gaming equipment is brought out of the storage onto the game table.

12. The management system according to claim 1, wherein the ID read by the second RFID reader is used to subsequently track the gaming equipment.

13. The management system according to claim 1, further comprising a third RFID reader provided in a backyard of the casino to read the RFID tag of the gaming equipment to be transferred from the backyard to the game table, wherein the management control device is configured to inspect whether a movement of the gaming equipment from the backyard to the game table is correct.

14. The management system according to claim 1, wherein the gaming equipment that has been determined by the management control device to be located at the game table are subsequently moved to a predetermined location so that the gaming equipment is available for use by a user at the game table.

15. A management system for managing gaming equipment, wherein the gaming equipment is equipped with an RFID tag storing an ID for identifying the gaming equipment, the management system comprising:

a storage provided at a game table or near the game table to store the gaming equipment to be used at the game table;

an RFID reader provided at the game table to read the RFID tags of the gaming equipment brought out of the storage onto the game table; and

a management control device configured to determine whether the gaming equipment whose RFID tag was read by the RFID reader should be brought out of the storage and located on the game table.

16. A management system for managing gaming equipment in a casino equipped with a game table, wherein the gaming equipment is equipped with an RFID tag storing an ID for identifying the gaming equipment, the management system comprising:

a storage provided at the game table or near the game table to store the gaming equipment to be used at the game table;

a first RFID reader that repeatedly reads the RFID tag of the gaming equipment stored in the storage;

a second RFID reader provided at the game table to read the RFID tag of the gaming equipment brought out of the storage onto the game table; and

a management control device configured to output an alert when there is a problem based on reading of the second RFID reader.